

1	Nor	(1rom)	-----	-----	-----	masgap	sfpfsrasgp	(16)
2	Ery F	(1oxa)	-----	-----	-----	atvq	dle-sdsfhv	(13)
3	Terp	(1cpt)	-----	-----	-----	mda	ratipehiar	(23)
4	Cam	(3cpp)	-----	ttetiq	snanlaplpp	hvpehlvfd	dmynpnsnlsa	(36)
5	BM3	(2hpd)	-----	-----	-----	ikempqpkf	gelknplln	(21)
6	2C5	(1dt6)	-----	-----	-----	sskgklp	tffsiignil	(25)
7	CPC5_RABIT	-----	mdpv	vvlvlglccl	lllsiwkqns	grgkl-pgg	tffsiignil	(43)
8	cyp51	(1e9x)	-----	-----	-----	avalprvs	hdehghleef	(22)
9	CP31_RAT	-----	dllsaltlet	wvllavvvlv	lyfgtrthg	lfkkqgi	kaleffgtvl	
10	CP33_HUMAN	-----	alipdlamet	wlllavslvl	lylygthshg	lfkklgig	t11flgnil	
11	CP34_HUMAN	-----	alipdlamet	wlllavslvl	lylygthshg	lfkklgig	t11flgnil	(50)
12	CP35_HUMAN	-----	mdlipnlavet	wlllavslvl	lylygtrthg	lfkrlgig	t11flgnvl	
13	C343_HUMAN	-----	mdlipnfamet	wvllvataslvl	lyiygthshk	lfkklgig	t11flgti	
14	CP36_RABIT	-----	mdli--fslet	wvllaaslvl	lylygtsthg	lfkkmgig	t11flgti	
15	CP37_HUMAN	-----	mdlipnlavet	wlllavslil	lylygtrthg	lfkklgig	t11flgnal	
16	CP3C_CANFA	-----	mdlipsfstet	wlllaislsvl	lylygytthg	ifrklgig	t11fvgtal	
17	CP3T_PIG	-----	mdlipgfstet	wvllatslsvl	lylygytshg	lfkklgig	r11yfgni	
18	CP3D_MOUSE	-----	mdlipnfsmet	wmllatslsvl	lylygthshg	ifkklgig	kaleflgti	

1	e---pp	AEEA_KIRAt	-----n	PVSQVKLEdg	sLAWLVTKHK	DVCEVatse-	(58)
2	d---	WYSTYAEI	ret--a	PVTPVREL-g	qDAWLVTGYD	EAKAAlsd-	(54)
3	d-ev--	LYPA_EKWL	rde--q	PLAMAHTegy	dEMWLATKHA	DVMQ1gkqpg	(68)
4	g-----	VOEA_WAVL	qesnvp	DLVWTRCNg-	-GHWLATRCQ	LIREAyedyr	(79)
5	t-d-k-	EVOA_LMKI	adel-g	EUKFEAT-g	rVIRYESSOR	LIKEAC-des	(67)
6	qidakd	ISKS_LTKF	segsg	PVFTVYLGmk	-ETVVLHGYE	AVKEAlvdlg	(73)
7	qidakd	ISKS_LTKF	segsg	PVFTVYLGmk	-ETVVLHGYE	AVKEAlvdlg	(91)
8	r-t-d-	PIGL_MQRV	rdec-g	DVGTFOLA-g	KQVLLSGSH	=ANEFF-rag	(66)
9	nyy-mg	LWKE_DVEChk	kyg-	KIWGLFDGqm	-ELFAITDTE	MIRNVlvkec	
10	syh-kg	FCMF_DMEChk	kyg-	KVWGFYDGqq	-VLAITDPD	MIKLVlvkec	
11	syh-kg	FCMF_DMEChk	kyg-	KVWGFYDGqq	-VLAITDPD	MIKTVlvkec	(97)
12	syr-qg	LWKF_DTECyk	kyg-	KMWGTYEGql	-VLAITDPD	VIRTVlvkec	
13	fyl-rg	LWNF_DRECne	kyg-	EMWGLYEGqq	-EMLVIMDPD	MIKTVlvkec	
14	eyr-kg	IWDF_DIECrk	kyg-	KMWGLFDGrq	-ELMVITDPD	MIKTVlvkec	
15	sfr-kg	YWTF_DMECyk	kyr-	KWGIYDCqq	-EMLAITDPD	MIKTVlvkec	
16	gyr-ng	FYVF_DMKCfs	kgq	RMWGFYDGrq	-EVLAITDPD	MIKTVlvkec	
17	gyr-kg	VDHF_DKKCfq	kgq	KMWGVYDGrq	-ELLAVTDPN	MIKSVlvkec	
18	ayq-kg	FWECKQChk	kgq	KMWGLYDGrq	-EVLAITDPD	IIKTVlvkec	

CSB 1*

CSB 1**

CSB 1

1	klskvr	-----	trqgfpel	---SASGRQa	a-----ka	-kpTFVDMDP	(91)
2	rlssdpkky	pgvevefpay	lgfPEDVRN	-----	y fat	NMGTSDP	(94)
3	lfsnae	-----	gse	ilyDONNEAf	mrsisggcp	vidSLTSMDP	(107)
4	hfsse	-----	cpfi	-----	-----a	ydfIPTSMOP	(105)
5	rfdknl	-----	-----	SOALKEV	r-----df	agdGLETSWT	(91)
6	eefagr	-----	-----	9SVPILEk	vs-----	kglGIAFSNA	(98)
7	eefagt	-----	-----	9SVPILEk	vs-----	kglGIAFSNA	(117)
8	dddldq	-----	-----	AKAYFPM	t-----pi	fgeGVVEDAS	(92)
9	fsvftn	-----	-----	RRDFGPv	gi-----	mgkAVSVAKD	
10	ysvftn	-----	-----	REPFGPv	gf-----	mksAISIAED	
11	ysvftn	-----	-----	RRPFGPv	gf-----	mksAISIAED	
12	ysvftn	-----	-----	RRSLGPv	gf-----	mksAISIAED	(122)
13	ysvftn	-----	-----	QMPLGPm	gf-----	lksALSFAED	
14	ysvftn	-----	-----	RRSFGPv	gf-----	mkkAVSISED	
15	ysvftn	-----	-----	RRPFGPv	gf-----	mknAISIAED	
16	ysvftn	-----	-----	RTTLGPv	gf-----	mksAISLSED	
17	ysvftn	-----	-----	RRSFGP1	ga-----	mrnALS LAED	
18	ystftn	-----	-----	RRRFGPv	gi-----	lkKAISISEN	

CSB 2A*

CSB 2A**

2 / 9

1	--PEHMHORS MVEPTFtpea vk--n	OPYKQORTVDDLIEO MKQKgcangp	(137)
2	--PTHTRLRK LVSQE Ftvrr	VEAMREPRVEOITAEL LDEVgds-gv	(136)
3	--PTHAYRG LTLNWEqpas ir--kLEENIURRIAQASVOR LLDF-d--ge	(150)	
4	--PEOROFRA LANOVVgmpv vd--kLENRIQELACSLIES LRPO---gq	(147)	
5	hekNWKKAHN ILLPSFSqqqa m--gTHAMMVDIAVOLVOK WERLh--adeh	(138)	
6	--KTWCEMR FSLMTLrnfg mgksISIEDRI QEARCREEE LRKTn--asp	(145)	
7	--KTWCEMR FSLMTLrnfg mgksISIEDRI QEARCREEE LRKTn--asp	(163)	
8	--PERRKEMI HNAALRqeq	MKGHAATIEDOVRMMIADWg-eage	(133)
9	--EEWKRYSR LLSPTFTsg- rlk-eMFPII EQYGDIEVKY LRQEaetgkp		
10	--EEWKRRLRS LLSPTFTsg- klm-eMVPII AQYGDVIVRN LRREaetgkp		
11	--EEWKRRLRS LLSPTFTsg- klm-eMVPII AQYGDVIVRN LRREaetgkp	(168)	
12	--EEWKRRLRS LLSPTFTsg- klm-eMFPII AQYGDVIVRN LRREaetgkp		
13	--EEWKRRLRS LLSPTFTsg- klm-eMFPII AQYGDVIVRN LRREaetgkp		
14	--EEWKRRLRS LLSPTFTsg- klm-eMFPII AQYGDVIVRN LRREaetgkp		
15	--EEWKRRLRS LLSPTFTsg- klm-eMFPII AQYGDVIVRN LRREaetgkp	(169)	
16	--EEWKRRLRS LLSPTFTsg- klm-eMFPII AQYGDVIVRN LRREaetgkp		
17	--EEWKRRLRS LLSPTFTsg- klm-eMFPII AQYGDVIVRN LRREaetgkp		
18	--EEWKRRLRS LLSPTFTsg- klm-eMFPII AQYGDVIVRN LRREaetgkp		

CSB 2A

CSB 2B

1	VDLVKEFALP VPSYMTYTLI GVP	ENDLEXL TOONAIRTng	(177)
2	VDTVDRFAHPLPTKVTCCELL GVD	EAARGAF GRWSSEILvm	(176)
3	CDFMTDCALY YPLHVMTAL GVP	EDDEPLM LKLTDQMTrp	(190)
4	CNFTEDYAEB PPTTOMILLA GLP	EEDIPHL KYLTDOMTrp	(187)
5	IEVPEDMTRI TLDTIGLCGE NYrfnsfyrd	qphPEITSMV RALDEAMNkl	(188)
6	CDPTFILGCA PCNVICSVI HNRfdyk--d	EEFLKLM ESLHENVEll	(190)
7	CDPTFILGCA PCNVICSVI HNRfdyk--d	EEFLKLM ESLNENVRIl	(208)
8	IDILDFFPAEL TIYTSSACLI GKKF---rd	qldGRFAKLY HELERGTDpl	(179)
9	VTMKKVFGAY SMDVATSTSE	Gvnvdsl--n NPKDPFV ETKKLLRfd	
10	VTLKDVFAGAY SMDVATSTS	Gvnvdsl--n NPQDPFV ENTKKLLRfd	
11	VTLKDVFAGAY SMDVATSTS	Gvnidsl--n NPQDPFV ENTKKLLRfd	(213)
12	VTLKDIFGAY SMDVATGTS	Gvnidsl--n NPQDPFV ESTKKFLKfg	
13	INLKDIFFGAY TMDVATGTL	Gvnidsl--n NPQDPFV KNMKLLKld	
14	VDLKEIFGAY SMDVATGTS	Gvnidsl--r NPQDPFV KNRLLKfs	
15	VTLKHVFGAY SMDVATSTSE	Gvsidsl--n NPQDPFV ENTKKLLRfn	(214)
16	INLRDVFGAY SMDVATSTS	Gvnidsl--n HPQDPFV ENTKKLLRfd	
17	VTMRDIFGAY SMDVATSTA	Gvnidsl--n NPQDPFV ENSKLLKfs	
18	TSMRDIFGAY SMDVATATS	Gvnidsl--n NPQDPFV EKIKKLLKfd	

CSB 3

CSB 4

1	s stareASAAN QELLDYLAIL VEQRIV	(204)
2	d-----p eraeqRGOAA REVVNFIELDL VERRT	(204)
3	-----eaarrHEHTI ATFYDYFNGF TVDRS	(216)
4	d-----g sm--t PAAEK EALYDYLIPY IEQRQ	(213)
5	qra---npdd -pa---y--d enkrqFOIDI KVMNDLVDKI LADRKA	(226)
6	gtpwlqvynn fpalldyfp gihktLLKNA DYIKNFIEMK VKEHOK1-l	(238)
7	sspwlqvynn fpalldyfp gihktLLKNA DYIKNFIEMK VKEHOK1-l	(256)
8	ayv---dpyl -pi-----esfrRDEAR NGLVALVADI MNGRIAp	(216)
9	ffd--plfls vvlfpfltpi yemlnICMFP KDSIEFFKF VYRMKETrl	
10	fld--pffls itvfpflipi levlnICVFP REVTNFLRKA VKRMKESrl	
11	fld--pffls itvfpflipi levlnICVFP REVTNFLRKS VKRMKESrl	(261)
12	fld--plfls iilfpfltpv fealnVSLFP KDTINFLSKS VNRMKKSrl	
13	fld--pflll islfpfltpv fealnIGLFP KDVTHFLKNS IERMKESrl	
14	ffd--pllls itlfpfltpi fealhISMFP KDVMDFLKTS VEKIKDdrlk	
15	pld--pfvls ikvfpfltpi lealnITVFP RKVISFLTKS VKQIKEgrlk	
16	ffd--pffls illfpfltpv feilnIWLFp KKVTDFFRKS VERMKESrl	
17	ffd--pffls liffpfltpi fevnITLFP KSSVNFFTKS VKRMKESrl	
18	ffd--plfls vtlfpfltpv fdalnVSLFP RDVISFETTS VERMKEnrmk	(262)

CSB 5

3 / 9

1 ---epkdDII SKLCTeqvkp --g----- niDKSDAVOL AELLLVAGNA (242)
 2 ---epgdDII SALISVqddd -dg----- rL SADELTSK ALVLLLAGFZ (243)
 3 ---cpkdDVM SLLANSkld- --gn----- yDDKYINAY XVALATAGHD (254)
 4 ---kpgtDAI SIVANGqvn- --gr----- pITSDEANRNC GLLL VGGLD (251)
 5 ---geqsdII THMLNgkdp e t-ge----- pLDDENIYQ LITFL FAGHE (267)
 6 -v-nnprDFI DCFLIKmeqe n----n---l efTLESLVIA VSDLFGACTE (279)
 7 -v-nnprDFI DCFLIKmeqe n----n---l efTLESLVIA VSDLFGACTE (297)
 8 ptdksdrDML DVLLA vkae t-gt----- prfSADELTCM FISMFMAGHH
 9 svqkhrvDFI QLMNNahnds kdkesht--- alSDMEITAQ SIIFIFAGYE
 10 dtqkhrvDFI QLMIDshkns keteshk--- alSDLELVAQ SIIFIFAGYE
 11 dtqkhrvDFI QLMIDsq-ns keteshk--- alSDLELVAQ SIIFIFAGYE
 12 dkqkhrEFL QLMIDsq-ns keteshk--- alSDLELAAQ SIIFIFAGYE
 13 dkqkhrvEFL QQMIDsq-ns ketkshk--- alSDLELVAQ SIIIIFAYD
 14 dkqkrrvEFL QLMINsq-ns keidshk--- alDDIEVVAQ SIIIIFAGYE
 15 etqkhrvEFL QLMIDsq-ns kdsethk--- alSDLELTAQ SIIFIFAGYE
 16 dkqkhrvEFL QLMINsq-ns kemdthk--- alSDLELVAQ SIIFIFAGYE
 17 dqqkrrvELL QLMINsq-ns kemphk--- asLSNEELVAQ GIIFIFAGYE
 18 nkekqrEFL QLMINsq-ny ktkeshk--- alSDVEIVAQ SVIFIFAGYE

CSB 6

CSB 7A

(307)

(308)

1 TMVNMLALGV ATIAQ HEDO LAOLKA ----- npSIA (272)
 2 ASVSLIGIT YLLLT HEDO LALVRA ----- dpSAL (273)
 3 TTSSSSGAI ICISR NEEQ LALAKS ----- dpALL (284)
 4 TWNESFSM EFLAK SEEH ROELIE ----- rpEFL (281)
 5 TSGLISFA IIPVX NEHV LOKAEE aa rvlvpdp-vps ykvqkqlXVV (314)
 6 TSTTTRYSL LLILK HEEV AARVOEeier vigrhrs-pc mqdrsrmPXT (327)
 7 TSTTTRYSL LLILK HEEV AARVOEeier vigrhrs-pc mqdrsrmPYT (345)
 8 TSSGTASWTL TELMR HRDA YAAVIDs-ld elygdrsvs fhalrqipQOL
 9 PESSTISFVL HSZAT HEDT QOKLOEeindr alpnka-ppt ydtvmemEL
 10 TISSVSFIM YEAT HEDV QOKLOEeida vlpnka-ppt ydtv1qmEYL
 11 TISSVSFIM YEAT HEDV QOKLOEeida vlpnka-ppt ydtv1qmEYL
 12 TISSVSFIM YEAT HEDV QOKLOEeida vlpnka-ppt ydavvqmEYL
 13 TISSVSFIM YEAT HEDV QOKLOEeida vlpnka-ppt ydalvqmEYL
 14 TISSVSFIM YEAT HEDV QOKLOEeida vlpnka-ppt ydalvqmEYL
 15 TISSVSFIM YEAT HEDV QOKLOEeida l1pnke-lat ydtlvkmEYL
 16 TISSVSFIM YEAT HEDV QOKLOEeida vlpnka-ppt ydtv1qlEYN
 17 TISSVSFIM YEAT HEDV QOKLOEeida tfpnka-lpt ydalvqmEYL
 18 TSSAISLLA YEAT HEDV QOKLOEeida tfpnka-ppt ydalaqmEL
TSSAISFAL YLLAI HEDV QOKLOEeida alpnka-pat ydtllqmEYL

CSB 7A

CSB 7B

CSB 8

(355)

(356)

1 POFVEELCRY HTASalaiKR TAKEDVMIGD -KLVRANEGL IASNOSANRD (321)
 2 PAVEEILRY IAPPet-tTR FAAEeveIgg -VAIPOYSTV LVANGAANRD (321)
 3 PLVDEAVBW TAFVs-fm TAKEDTVRFRN -ONIKRGRDI MLYSISSANRD (332)
 4 PLACPEYLR FSLVa-afG ILTSDYEFHG -VOLKKGDQI LLPOMLSGLD (328)
 5 GMVNEALRL WPTAp-aSf YAKEDTVLGG -EYPLEKGDEL MVLIPQLHRD (363)
 6 BAVIHEIQRF IDLLptnlPH AVTRDVRFRN -YFIEPKGTDI ITSILTSVLHD (376)
 7 BAVIHEIQRF IDLLptnlPH AVTRDVRFRN -YFIEPKGTDI ITSILTSVLHD (394)
 8 ENVLKETLRL HPPLi-1MR VARGEFEVQG -HRIHEGDLV AASPAISNRI (355)
 9 DMVLNETLRL YPIGr-1ER VCKKDVEING -VFMPKGSVV MIPSYALHRD
 10 DMVNETLRL FPIAmr-1ER VCKKDVEING -MFIEPKGWVV MIPSYALHRD
 11 DMVNETLRL FPIAmr-1ER VCKKDVEING -MFIEPKGWVV MIPSYALHRD
 12 DMVNETLRL FPVAir-1ER TCKKDVEING -VFIEPKGSMV VIPTYALHHD
 13 DMVNETLRL FPVVsri-VTR VCKKDVEING -VFIEPKGLAV MIPSYALHRD
 14 DMVNETLRL YPIAgr-1ER VCKKDVEING -TFIEPKGTIV MMPTYALHRD
 15 DMVNETLRL FPVAmr-1ER VCKKDVEING -MFIEPKGVVV MIPSYVLHHD
 16 DMVLNETLRL YPIAgr-1ER VCKKDVEISG -VFIEPKGTVV MIPFTLHRD
 17 DMVNETLRL YPIAar-1ER ACKKDVEIhg -VFIEPKGTVV VVPVFVLHRD
 18 DMVNETLRL YPIAgr-1ER VCKTDVEING -LFIEPKGTVV MIPTFALHRD

CSB 8

CSB 9

CSB 10

(404)

(403)

4 / 9

1	EEVB-ENPEDE	ENMnrk----	---wppq-dP E IGEGF G HRC	IAEHLAKAEL	(362)
2	PSQF-PDEPHR	EDVtrd----	---tr--gH A SE G OGIHFC	MGRPLAKLEG	(360)
3	EEVB-SNEDE	EDITrf----	---p-n-rH I GE G WGABMC	LGOHILAKLEM	(371)
4	EREN-ACPMR	VDFsrq----	---k-v-sh T TE G HGSILC	LGOHILARREI	(367)
5	KT I WODDVEE	ERerfenps	a--ipqh-a R P E GN G ORAC	I C OOF A HEA	(410)
6	ERAI-PNEKV	ED G ghfides	-gnfkksdy E MP E SACKRM C	V G EGI A RMEL	(424)
7	EKA F -PNEKV	ED G ghfides	-gnfkksdy F MP E SACKRM C	V G EGI A RMEL	(442)
8	PEDE-PDEHD	EV E aryeqpr	qedllnrvtw H P E GAGRHC	V G AAFAIMOI	(404)
9	PQHW-PEPEE	ERerfsken	kgsidpy-vY LPEGNGPRNC	IGMRFALMN M	
10	PKYW-TEEEK	EL E erfskkn	kdnippy-iY T P EGS G PRNC	IGMRFALMN M	
11	PKYW-TEPEK	ERerfskkn	kdnippy-iY T P EGT G PRNC	IGMRFALMN M	(451)
12	PKYW-TEBEE	ERerfskk-	kdsidpy-iY T P EGT G PRNC	IGMRFALMN M	
13	PKYW-TEEK	EC E erfskkn	kdsidly-rY IPEGAGPRNC	IGMRFALTN I	
14	PQHW-TEPDE	ERerfskkn	kdninpy-iY HPEGAGPRNC	IGMRFALMN I	
15	PKYW-TEPEK	EL E erfskkn	kdnidpy-iY T P EGSGPRNC	IGMRFALVN M	
16	QSLW-PEPEE	ERerfsrkn	kdsinpy-tY LPEGT G PRNC	IGMRFALMN M	
17	PDLW-PEPEE	ERerfskkh	kdtinpy-tY LPEGT G PRNC	IGMRFALMN M	
18	PKYW-PEPEE	ERerfskkn	qdsinpy-mY LPEGSGPRNC	IGMRFALIN M	

CSB 10 CSB 11

CSB 12A

CSB 12B

1	TTVESTLYOK	--PDLKVav plg G NYTP I NRdVGIVDLP V if	(403)
2	EVAVRALEGR	Ep A LSIGid ad-DVVWRRS L I I RGIDHLP V rldg	(403)
3	KIT E ELLPK	L-kSVELsg----PPRLVAT N EVGGPKNVP I rfktka	(412)
4	TV E KEWLTR	Ip d FSIAE--g--AOIOHK S GIVSGVOALP V Lvwdpattka v	(414)
5	TLV E GMLKH	DFEDHT- -n-YELDIKE T L T L KPEGFV V akaskkipl ggip	(459)
6	ELFLTSILON	--KLOSLive pkdLDITAVV NGf V SVPPSY Olcf---ipi hhhh	(473)
7	FLFLTSILON	--KLOSLve pkdLDITAVV NGf V SVPPSY Olcf---ipi	(487)
8	KATESVLIRE	Y-EFEMAGP p-eSYRNDS H S K MvVOLAOPA Cvryrrrtgv	(450)
9	KLAETKV L ON	--SFQPCke tq-IPLKLSR QG1L O PTKPI Ilkvvpri	
10	KLA A IRVL O N	--SFQPCke tq-IPLKLSL GG1L O PEKPV Vlkvesr---	
11	KLA A IRVL O N	--SFQPCke tq-IPLKLSL GG1L O PEKPV Vlkvesrdgt vsga	(502)
12	KLA A IRVL O N	--SFQPCke tq-IPLKLD T QG1L O PEKPI Vlkvd s rdgt lsge	
13	KLA A IRV L ON	--SFQPCke tq-IPLKLD N LP1L O PEKPI Vlkvh l rdgi tsgp	
14	KLA A VR L MON	--SFKLCke tq-VPLKL G KQ1L O PEKPI Vlkvv s rdgi irga	
15	KLA A VR L ON	--SFKPCke tq-IPLKLR F GG1L L TERPI Vlkae s rdet vsga	(503)
16	KLA A VR L ON	--SFKPCke tq-IPLKLNA QG1L O PEKPI Vlkveprdgs vn g a	
17	KLA A VR L ON	--SFKPCke tq-IPLKLTT QG1L O PEKPV Vlkilprdgt vsga	
18	KVALVR L ON	--TVQPCke te-IPLKLSK QG1L O PENPL Llkvv s rdet vsde	

CSB 12B

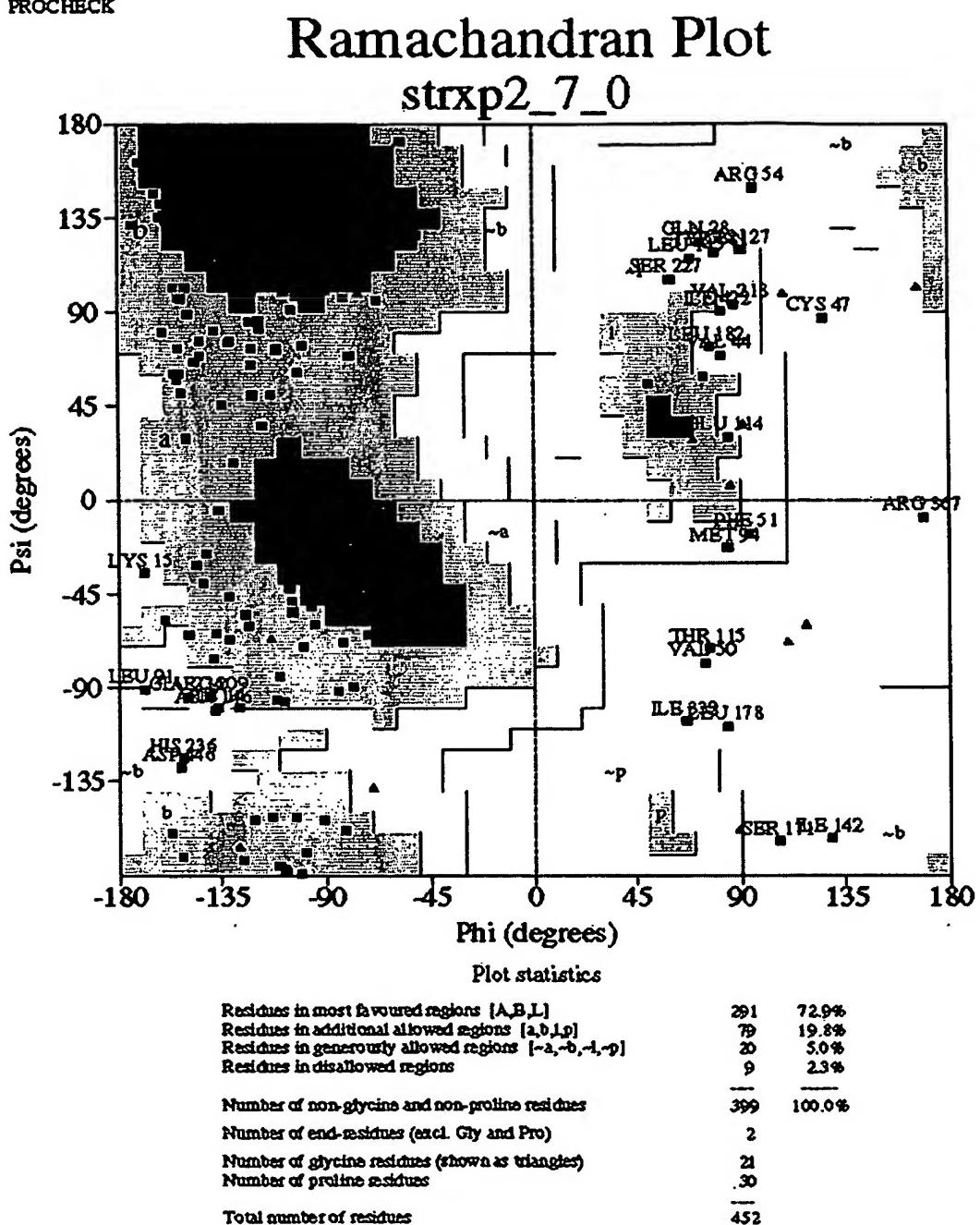
CSB 13*

CSB 13** CSB 13

FIGURE 1

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PROCHECK

**FIGURE 2**

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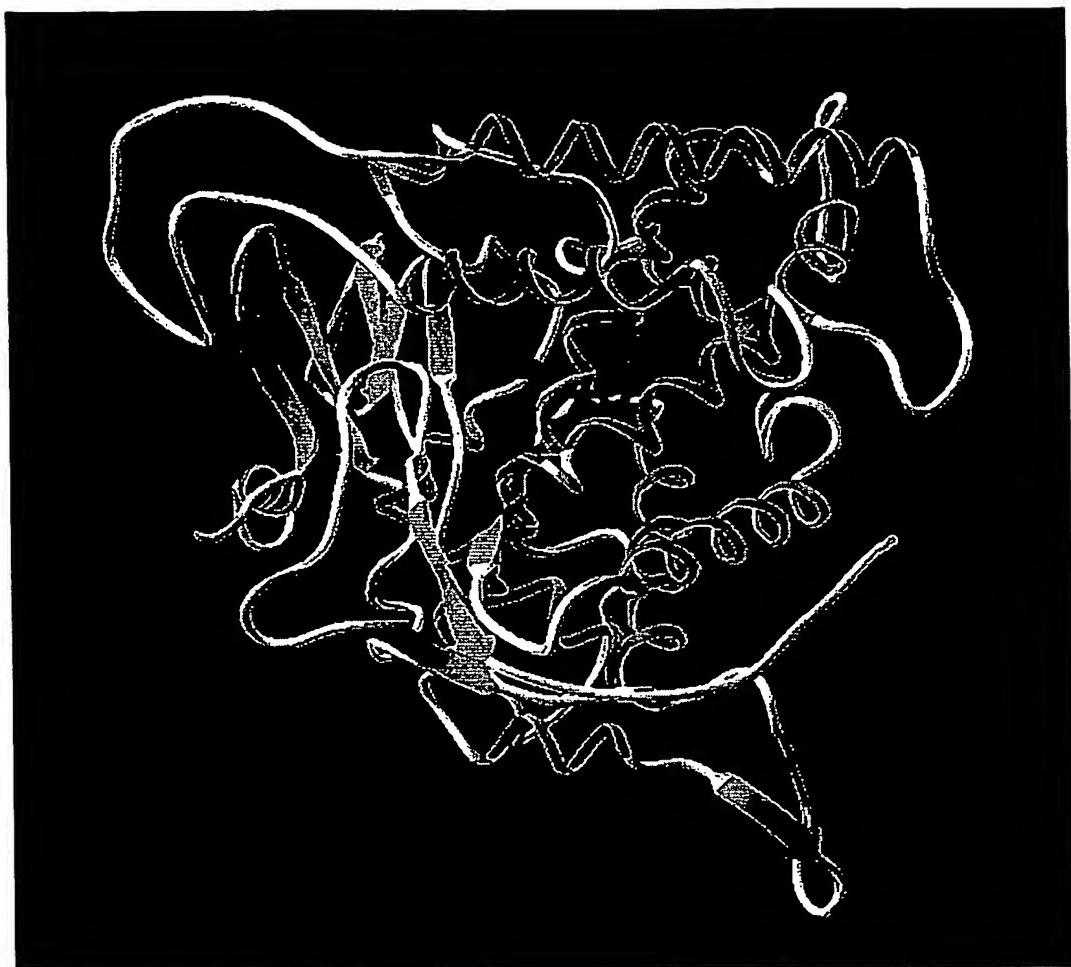
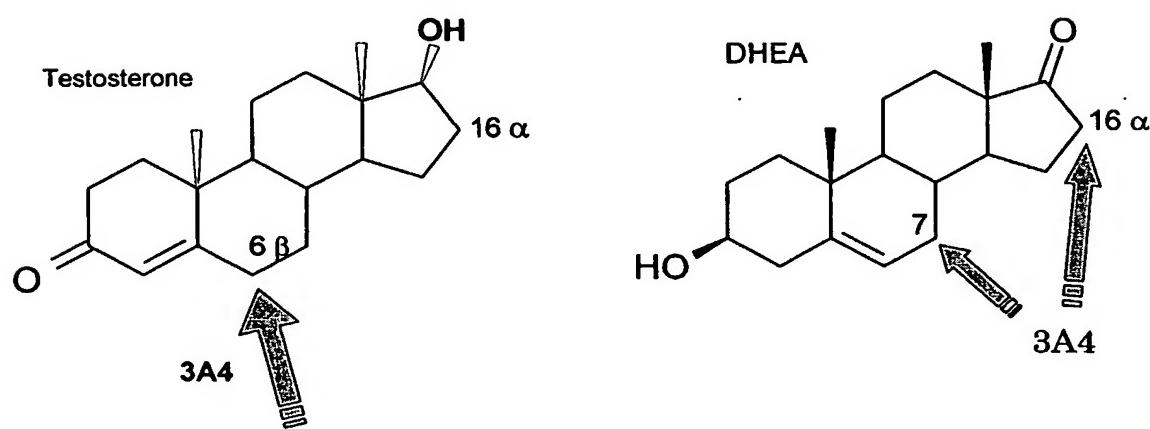
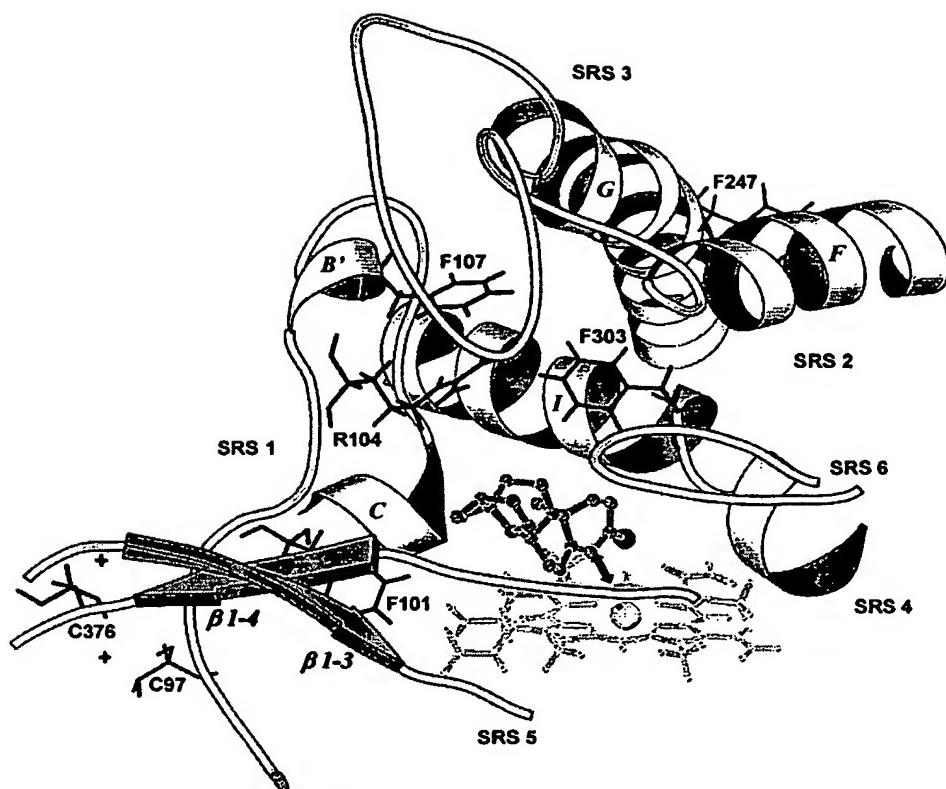


FIGURE 3

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**FIGURE 4A**

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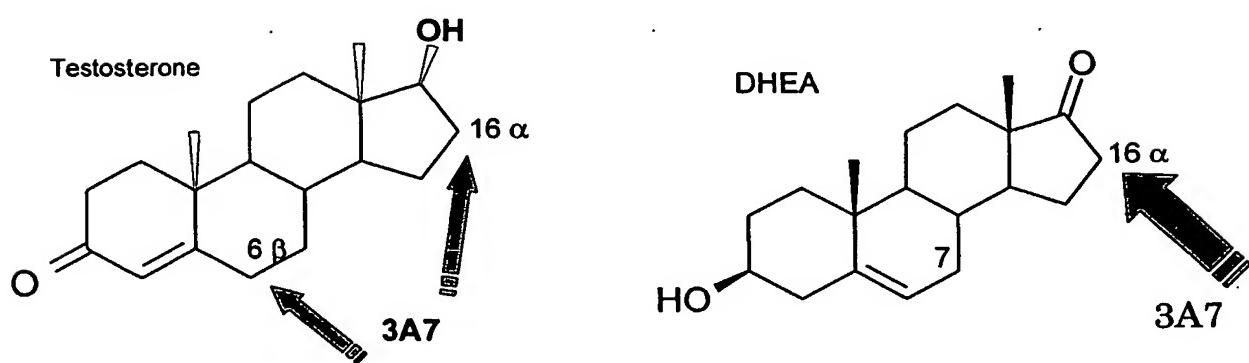
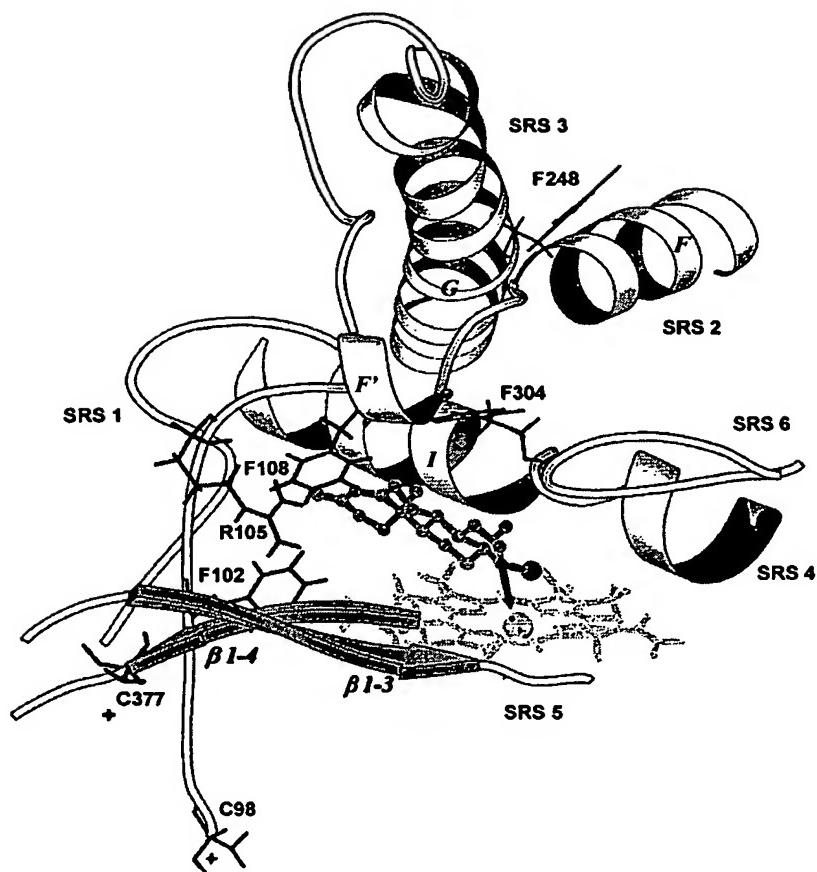


FIGURE 4B

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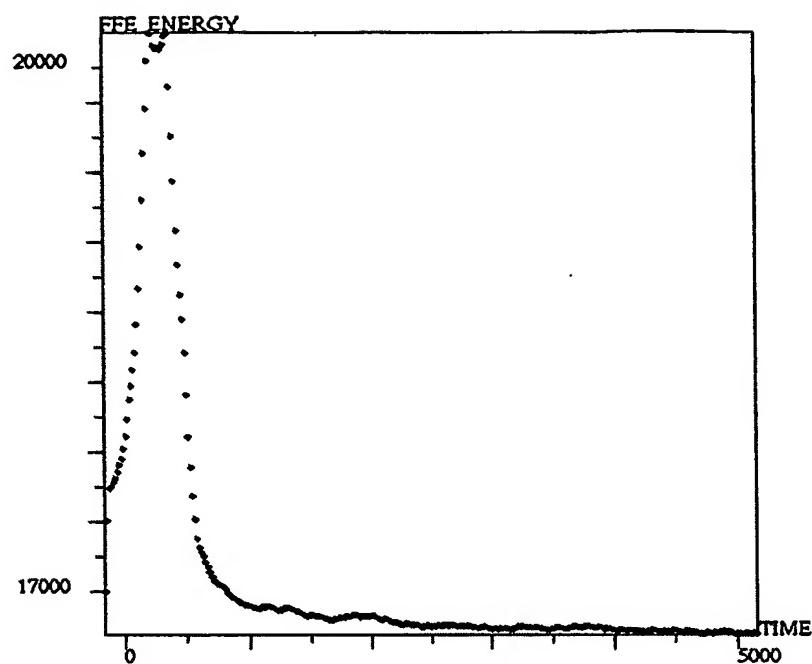


FIGURE 5